COURSE: INT101: Introduction to Industrial Technology   Credits 3

INSTRUCTOR:  
SEMSTER/YEAR:  SPRING, 2018

COURSE DESCRIPTION:  
This course will give students a foundation in basic industrial and commercial technology. Topics include basic principles of mechanical and electrical systems, work safety, tools, fasteners, measuring devices, control systems, lubrication, pneumatics and fluid power. Prerequisite: ENG 98, or equivalent score on placement/writing test; MAT 100 and IST 100, concurrent enrollment or successful completion of SALI test. 3 Credits

TEXTBOOK:  
ISBN 9780826937124 Publisher ATP

STUDENT LEARNING OUTCOMES:  
After successfully completing this course, students will be able to:  
- Understand the history of industrial assembly.  
- Learn how to work safely using appropriate PPE and lock out.  
- Read manufacturing and assembly prints with critical analysis.  
- Understand basic precision measurement procedures.  
- Locate and use online technical resources for the application and maintenance of industrial and commercial components.  
- Identify mechanical fasteners, power transmission, bearing and coupling components.  
- Explain the concepts and importance of proactive/predictive maintenance.  
- Recognize signs and causes of failure of power transmission components.  
- Follow basic troubleshooting procedures for common mechanical systems and processes.

CREDIT HOUR EXPLANATION  
Total Hours of Coursework:  
To earn one academic credit at HCC, students are required to complete a minimum of 37.5 clock hours (45 fifty-minute “academic” hours) of coursework per semester. Those hours of coursework may be completed through a combination of hours within the classroom and hours outside the classroom. Certain courses may require more than the 37.5 minimum hours of coursework per credit.  

For most classes, students should expect to do at least 2 hours of coursework outside of class for each hour of in-class coursework.
<table>
<thead>
<tr>
<th>Assignment/Assessment</th>
<th>Clock Hours</th>
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<tbody>
<tr>
<td>In-class Instruction</td>
<td>45 hours</td>
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<tr>
<td>Textbook Chapter Readings</td>
<td>35 hours</td>
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<tr>
<td>Hands-on Activities</td>
<td>15 hours</td>
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<tr>
<td>Chapter Review Questions and Answers</td>
<td>15 hours</td>
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<tr>
<td>Exam Preparation</td>
<td>15 hours</td>
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<tr>
<td><strong>Total hours</strong></td>
<td><strong>125 hours</strong></td>
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**Services for Students with Special Needs:** Students who have special needs are encouraged to identify themselves with the coordinator of special student services as early as possible. Reasonable accommodations, based on current documentation, are provided to qualified students. Contact: HCC Disability Services Department: 240-500-2273